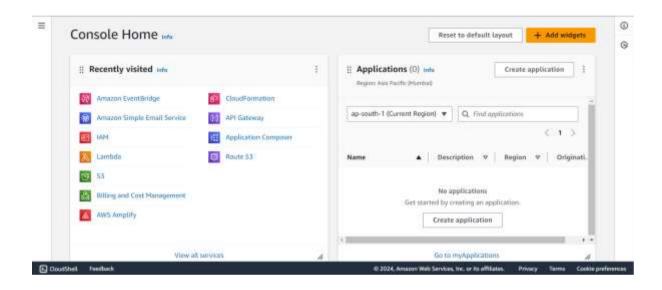
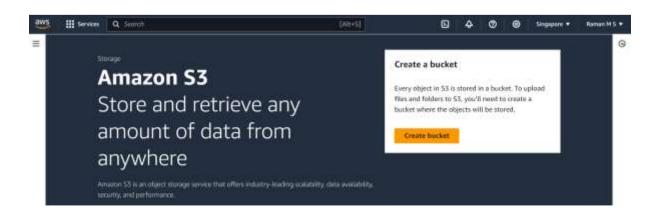
Build a Serverless Email Marketing Application Using AWS

The Services used in this projects (S3,SES,AWS LambdaFunction,AWS Event Bridge)



Step 1: Create an S3 Bucket

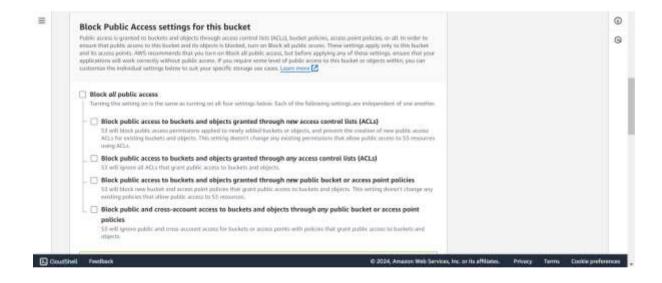
- Navigate to S3 in the AWS Console.
- Click the "Create bucket" button.



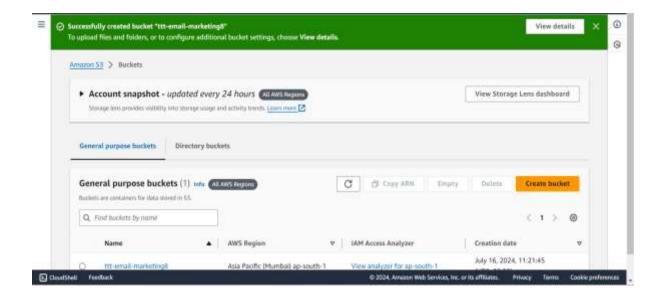
• Add a globally unique name for your S3 bucket.



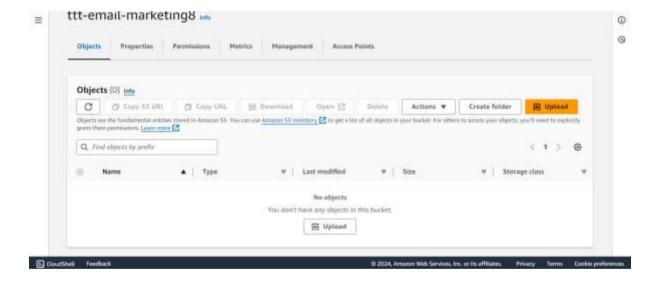
- Untick "Block all public access" -(it enables public access to your bucket's contents)
- Then Click on Create Bucket



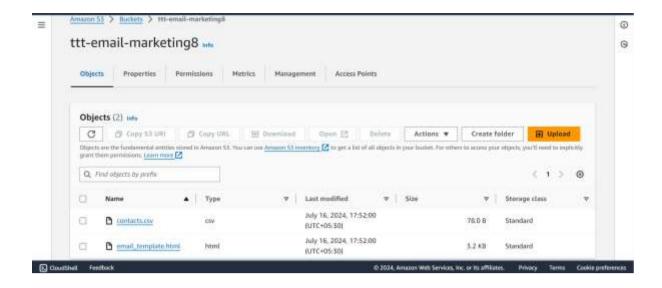
• You can view our newly created bucket in Amazon S3 under the "Buckets" section



- Click on the newly created bucket.
- Click the "Upload" button to add your website files.



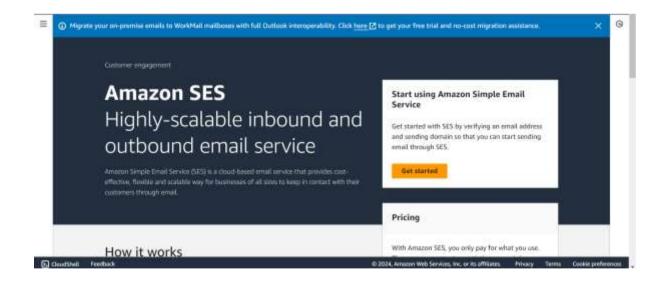
• You can upload all the files and folders of the website here.



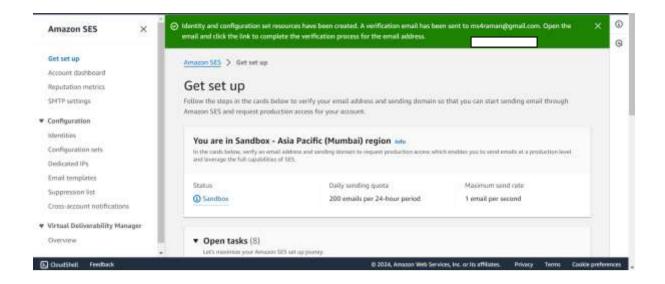
• And then click on Upload

Step 2: Next create a Simple Email Service for sending Email

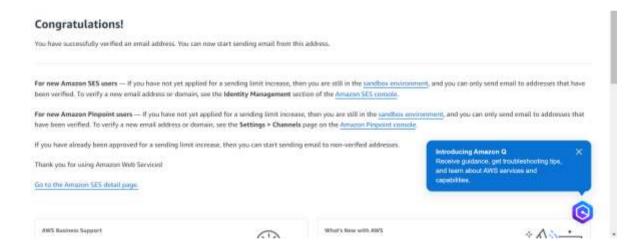
- Navigate to SES in the AWS Console.
- Click the "Get Started" button



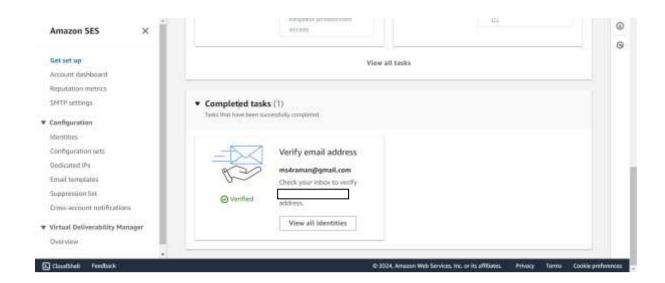
And now we need to provide the email ID and domain name, and then create it



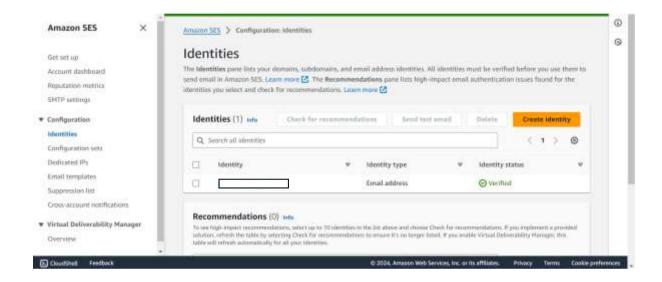
 Then you will get a Email for verification and you need to click that link then it will redirect to an message



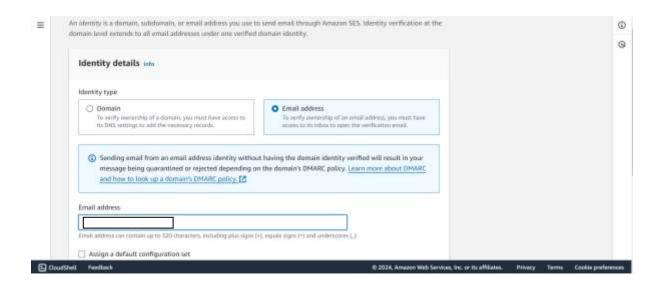
• Now in completed task you can see the whether it is verified or not.



- Now that we have created the email ID, we need to send an email. To do this, we provided a contact. CSV file in S3 bucket that contains the email IDs of the recipients.
- So we are taking those email ID and create
- For that Go to create identity

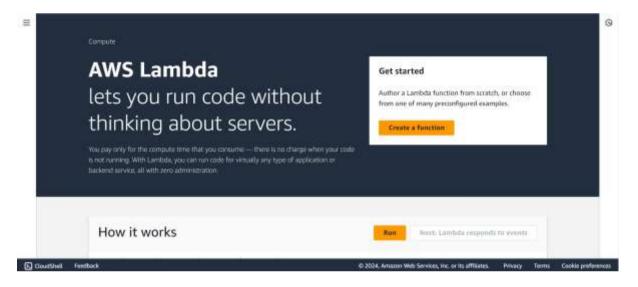


- You can have any number of identities/recipients. But in this instance, I only added one.
- And last click create identity.

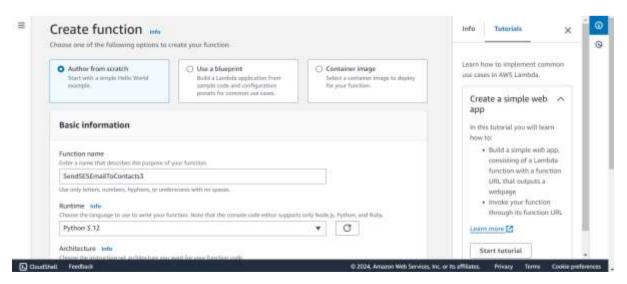


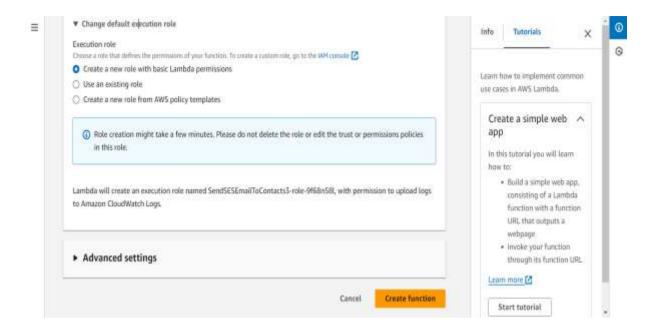
Step 3: Create Lambda Fuctions

- Navigate to AWS Lambda in the AWS Console.
- Click the "Create a Fuction" button

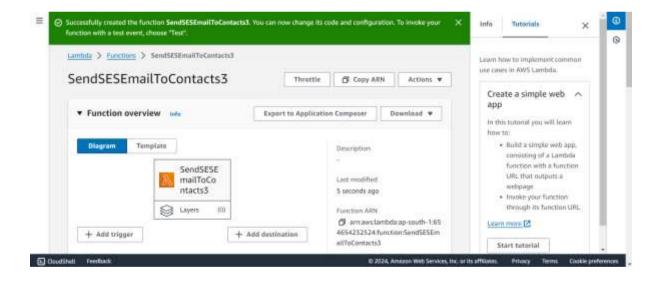


- Now we need to provide a name for the Lambda function, specify the language it should run.
- And also we can choose role also, then click on Create function.



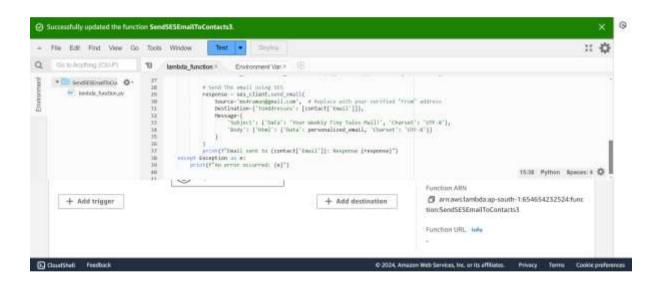


· Now we can see it get created

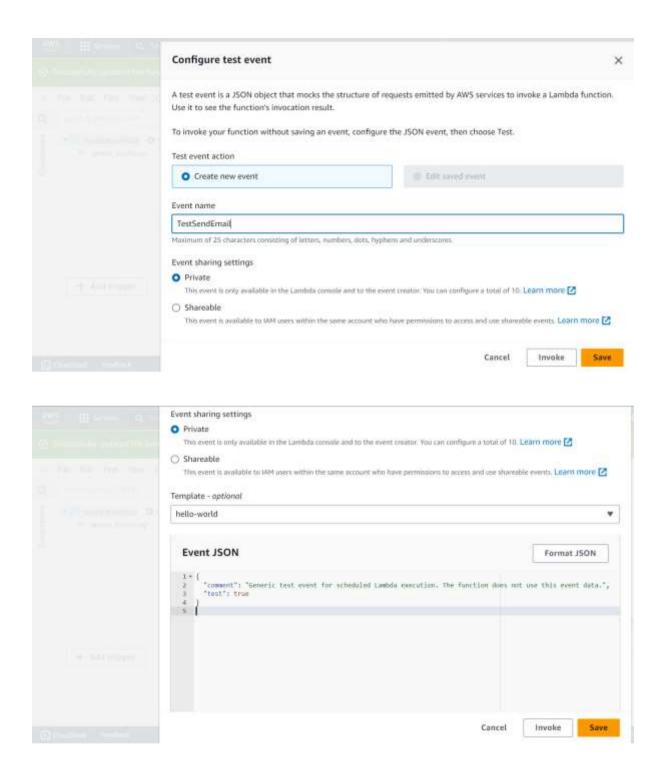


- So after creating the Lambda fuction we can change the code and configuration for our own.
- In this I have give one python code for the lambda Fuction

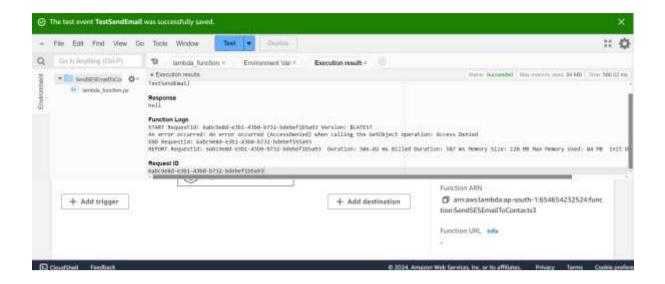




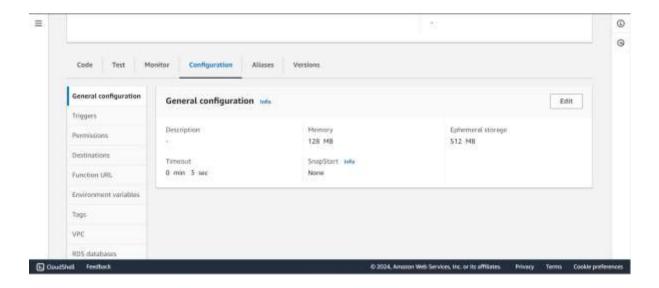
- After this we are checking whether this is working or not, for that we click the test
- Then need to give a Event name as well as one Event Json.
- And then click on Save



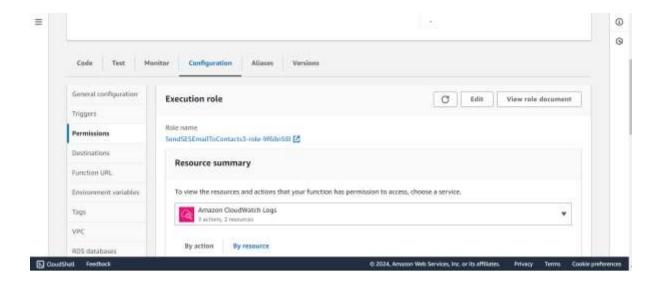
• After save, you need to click Deploy for whethere our this Test event working or not.



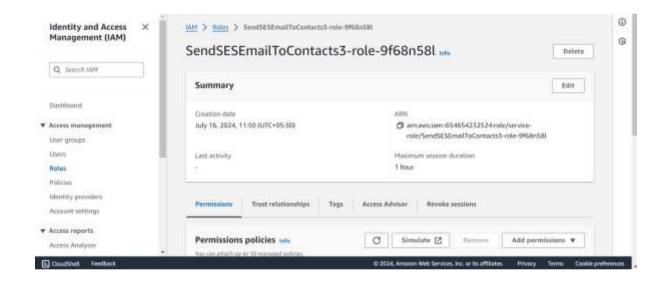
- But after Deploy we can see that it will show "Access Denied".
- Because the Lambda Fucntion is not having permission to do this, so because of that we need to make policies for that.
- Now click on Function, and go to Configuration



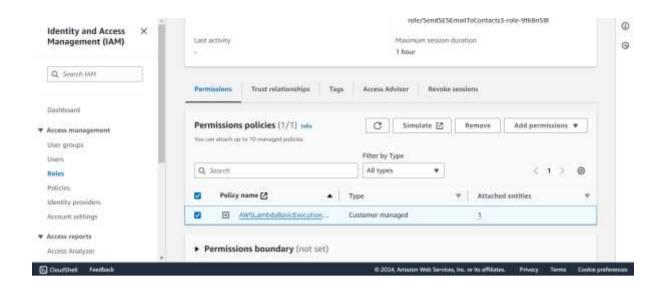
- Then Go to the Permissions
- Click on that Role name or that SendSESEmailTOContact3-role

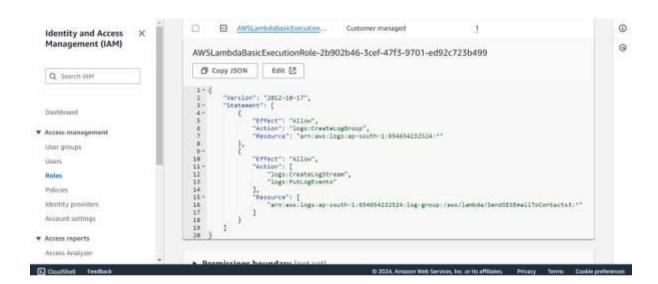


• Now Go to Roles

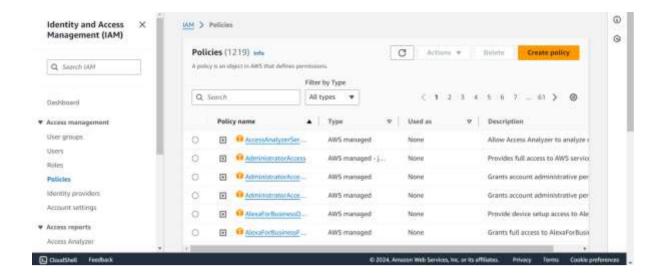


- Now, in roles, we need to check which role is assigned to this SES. It only has CloudWatch support.
- Because of that, we need to create a new policy.

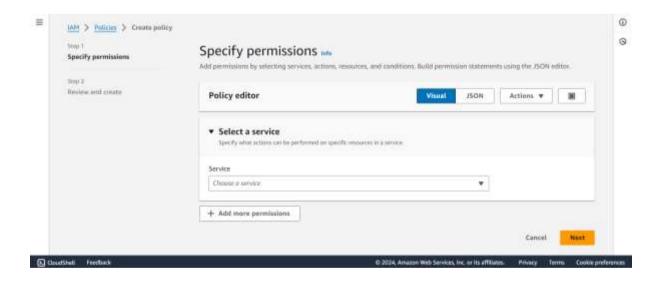




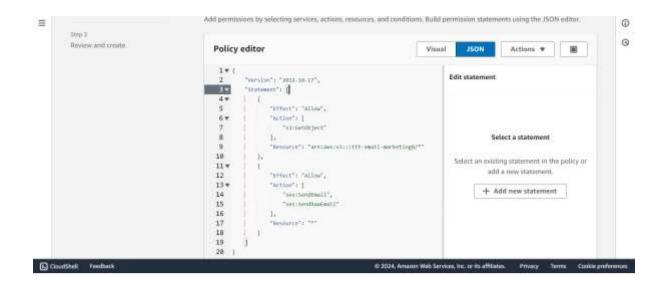
- Now Go to policies and make a new policy for this
- Click on Create Policy



- · After that you need to specify which Policy Editor need to choose
- Click on Json



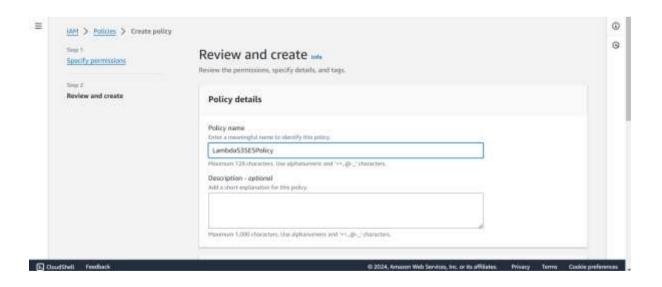
And now need to make a code and put that into the JSON



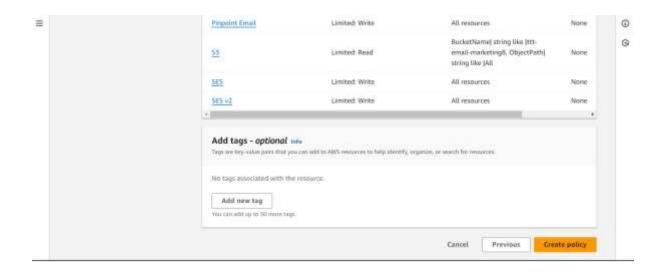
· Click on Next



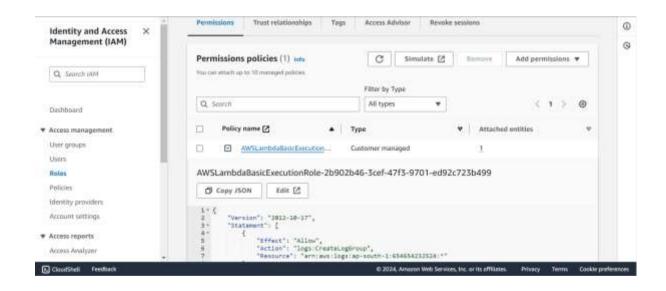
• In Review and Create we need to give a name for that (LambdaS3SESPolicy)



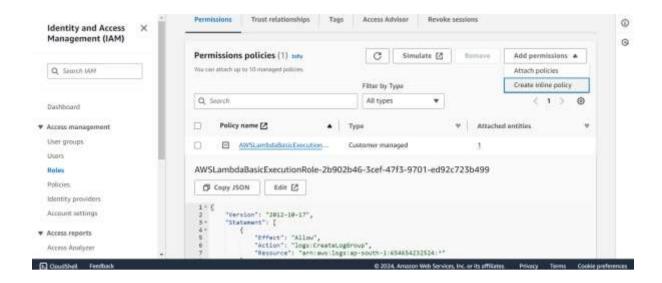
• And now click on Create Policy



- Now need to add this permission into Policy
- For that Click on Add Permission



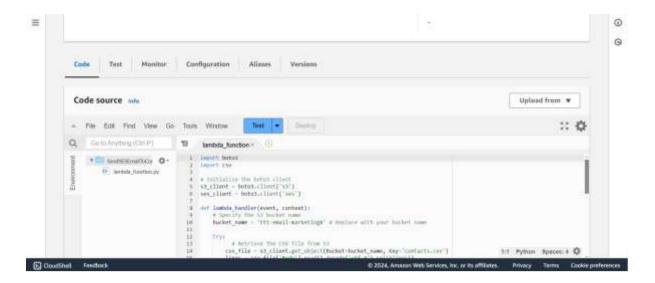
• And now click on Create Inline Policy



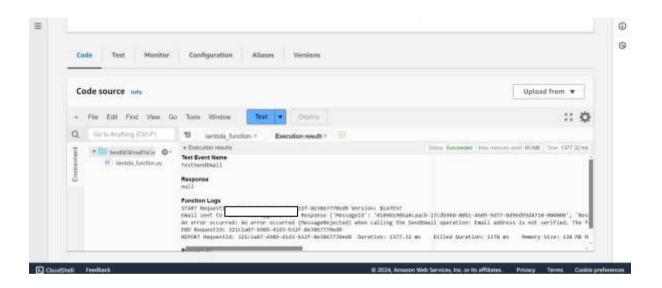
• Click that LamdaS3SESPolicy and Click on Add Permission



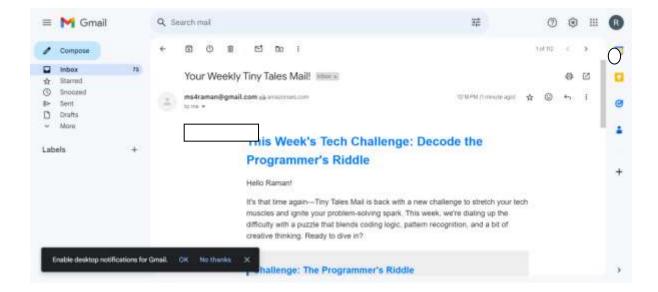
• After that again go the The Test and try once again



 Now you get a message like its success or you won't get the message called Access Denied



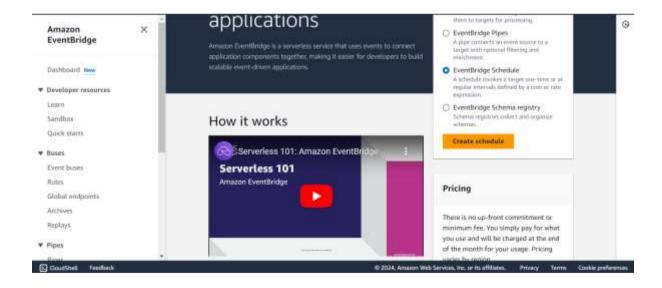
• Now, check your email to see if you received the email or not.



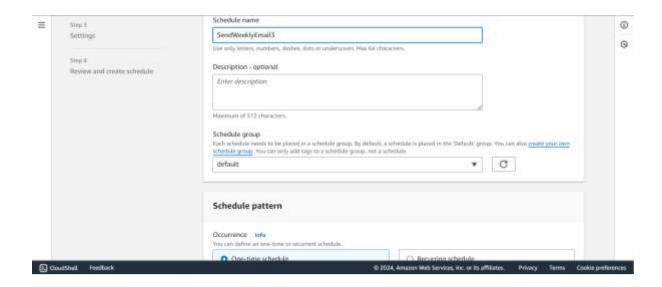
This will be the Email you will be Getting.

Step 4: Create Amazon EventBridge

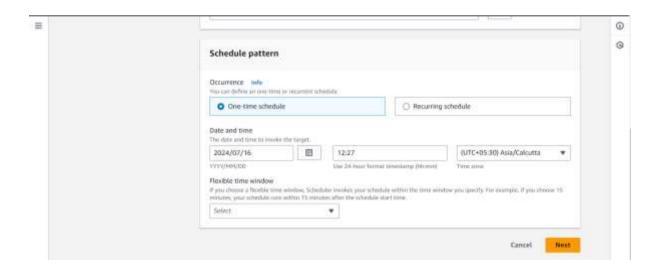
- Navigate to Amazon EventBridge in the AWS Console.
- Click the EventBridge Schedule and Click the Create Schedule button



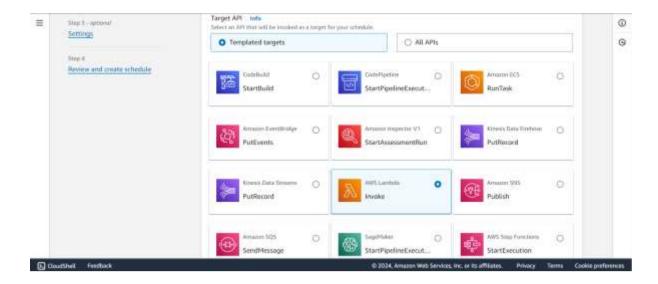
· Now we need to give a Schedule name



- And next is the Schedule pattern, so here you can have once time schedule and also
 Recurring Schedule also.
- And specify the Year, Date and Time also the Time Zone
- Then Click on Next



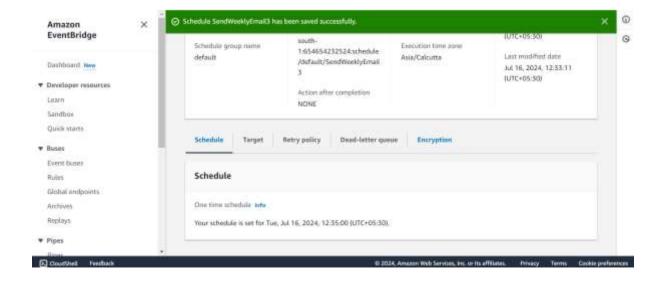
• After that we need to specify which Target Api want to choose , so here am choosing the AWS Lambda.



• Make Default in Settings and then atleast click Next and Create



• So Sucessfully I have created the EventBridge and wait for the Result in Email



• Tadddaaaa! Horrayyyyy we go the OutPut

This Week's Tech Challenge: Decode the Programmer's Riddle

Hello Raman!

It's that time again—Tiny Tales Mail is back with a new challenge to stretch your tech muscles and ignite your problem-solving spark. This week, we're dialing up the difficulty with a puzzle that blends coding logic, pattern recognition, and a bit of creative thinking. Ready to dive in?

Here timing might change here because this eventbridge step I tried two times and the second time I couldn't take snap